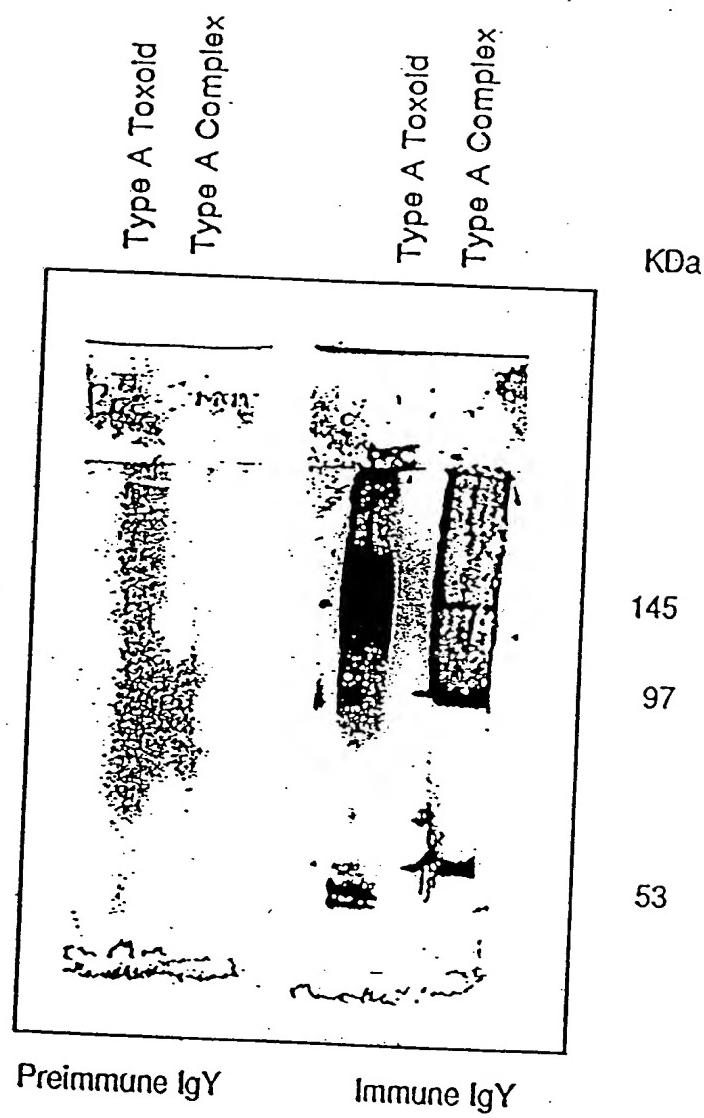


Attachment 5

The drawings submitted with this application were declared informal by the applicant. Accordingly they have not been reviewed by a draftsperson at this time. When formal drawings are submitted, the draftsperson will perform a review.

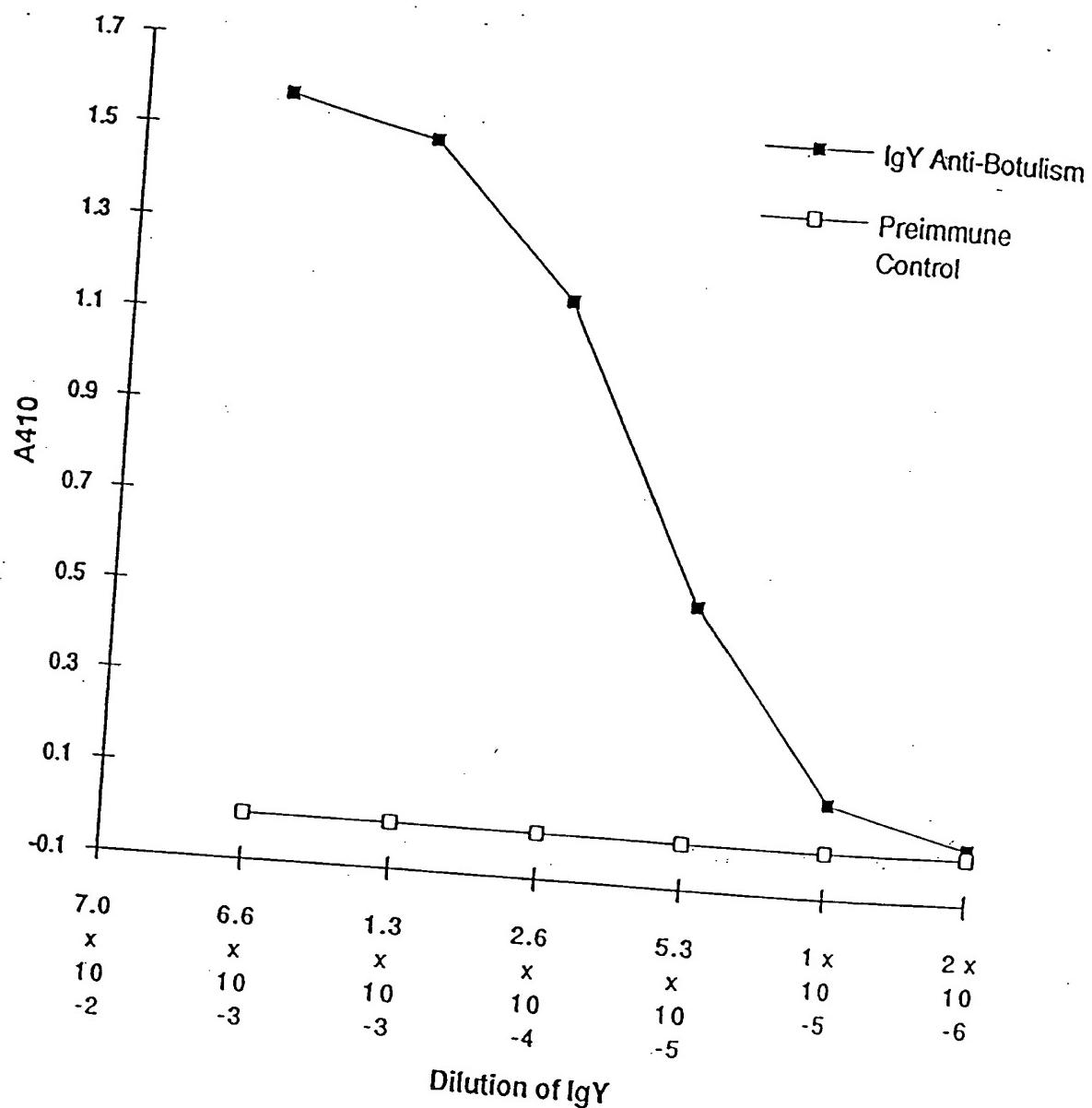
Direct any inquiries concerning drawing review to the Drawing Review Branch (703) 305-8404.

FIGURE 1



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FIGURE 2



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FIGURE 3

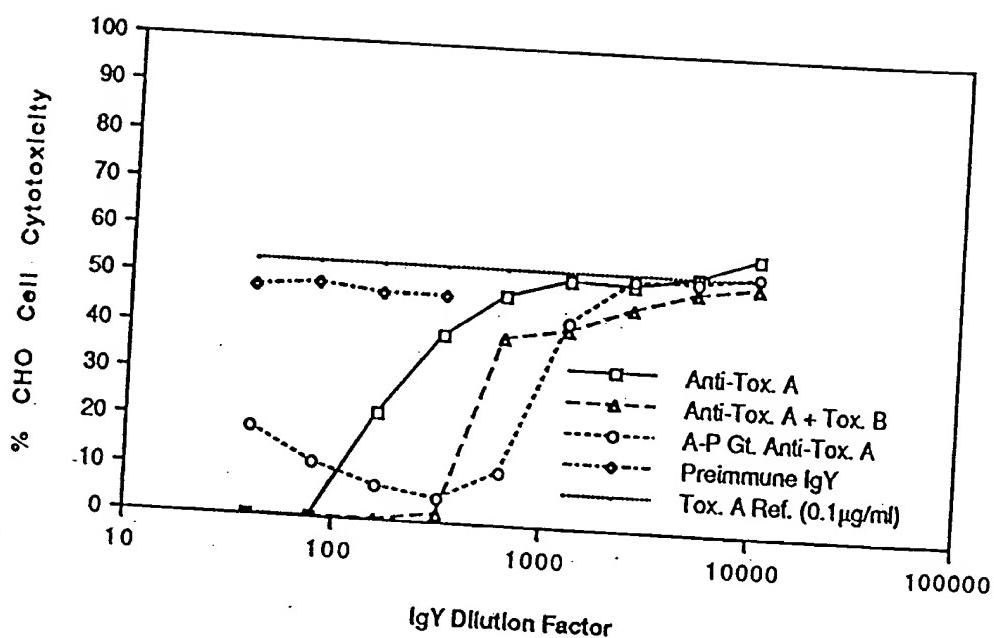
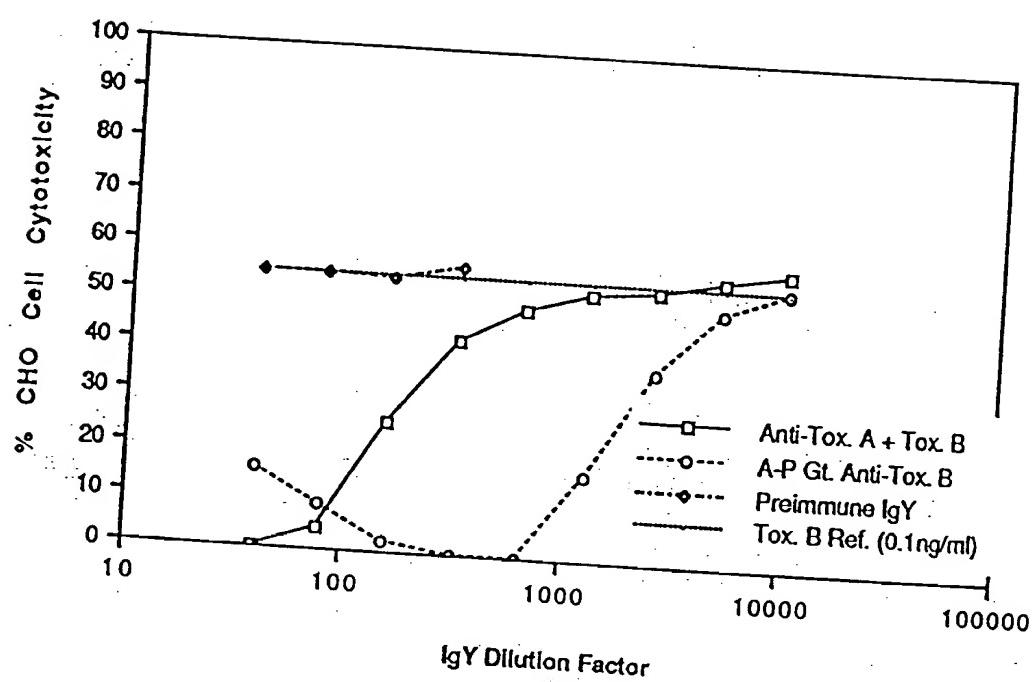


FIGURE 4



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FIGURE 5

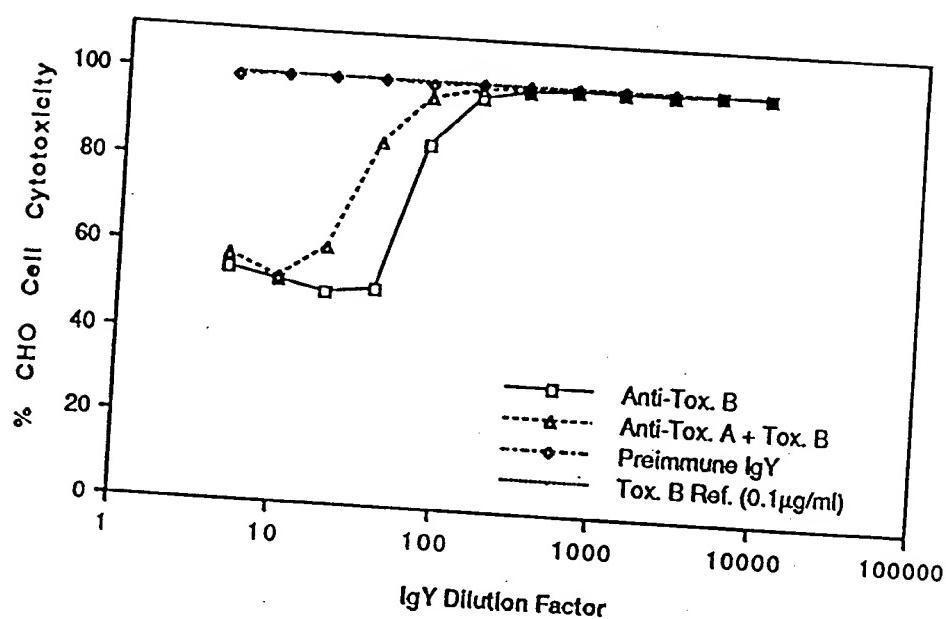
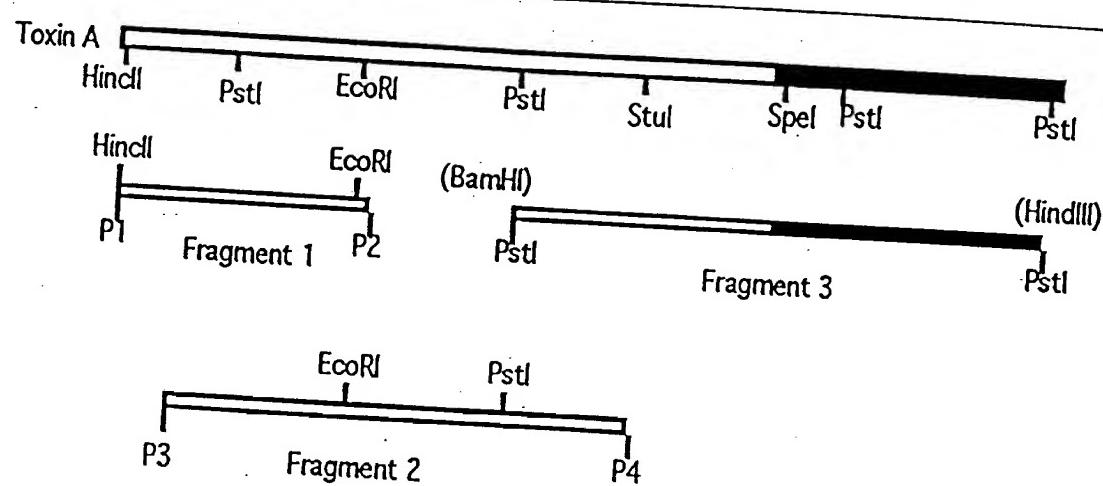


FIGURE 6



P1-P4 are PCR primers 1-4. P1=5'GGAAATTAGCTGCAGCATCTGAC3', P2=5'TCTAGCAAATTCGCTTGTGAA3', P3=5'CTCGATATAGCATTAGACC3', P4=5'CTATCTAGGCCTAAAGTAT3'. Indicated restriction sites in fragments 1 and 2 are internal sites used to clone into pGEX2T vector (fragment 1; construct called pGA30-660) or pMALc vector (fragment 2; construct called pMA660-1100). Bracketed restriction sites at ends of fragment 3 are pUC9 polylinker sites utilized to clone fragment 3 into pET23 vector (construct called pPA1100-2680). Numbers in these constructs refer to toxin A amino acid interval that is expressed. The shaded portion of the toxin A gene corresponds to the repeating ligand binding domain.

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FIGURE 7

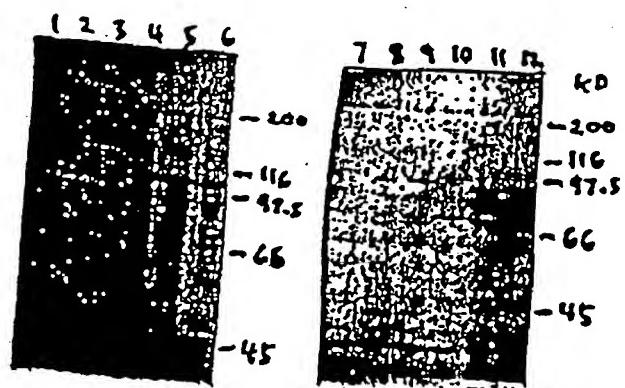
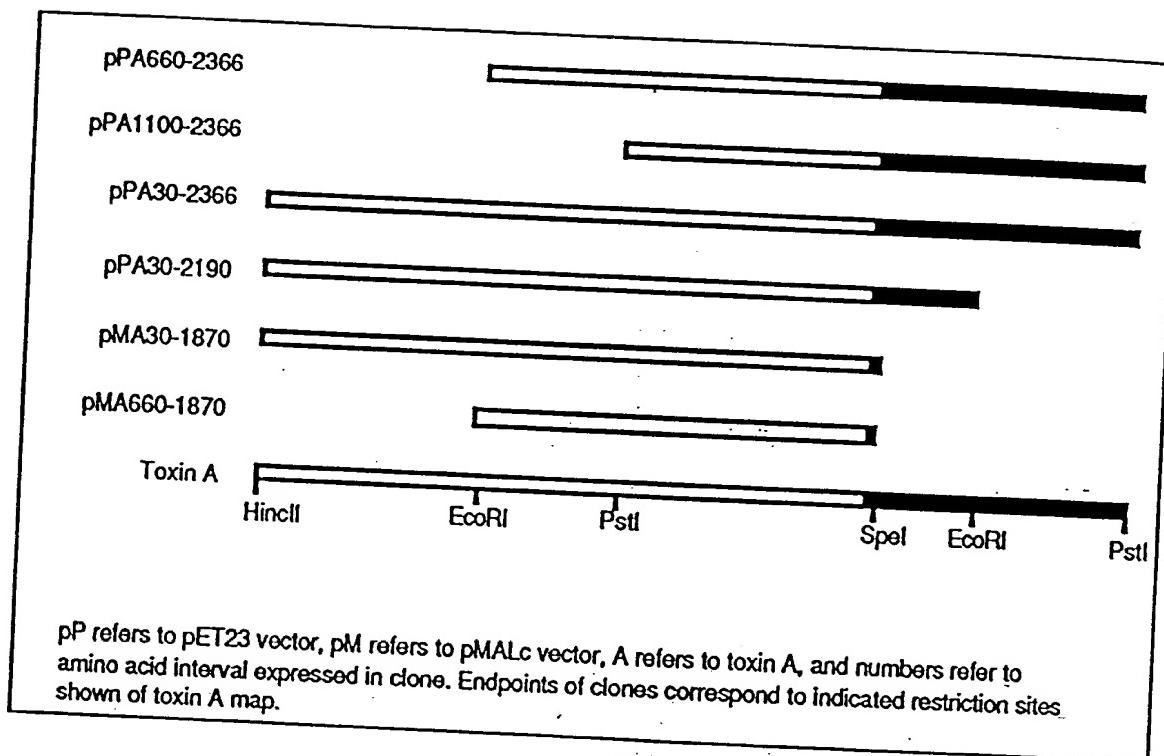
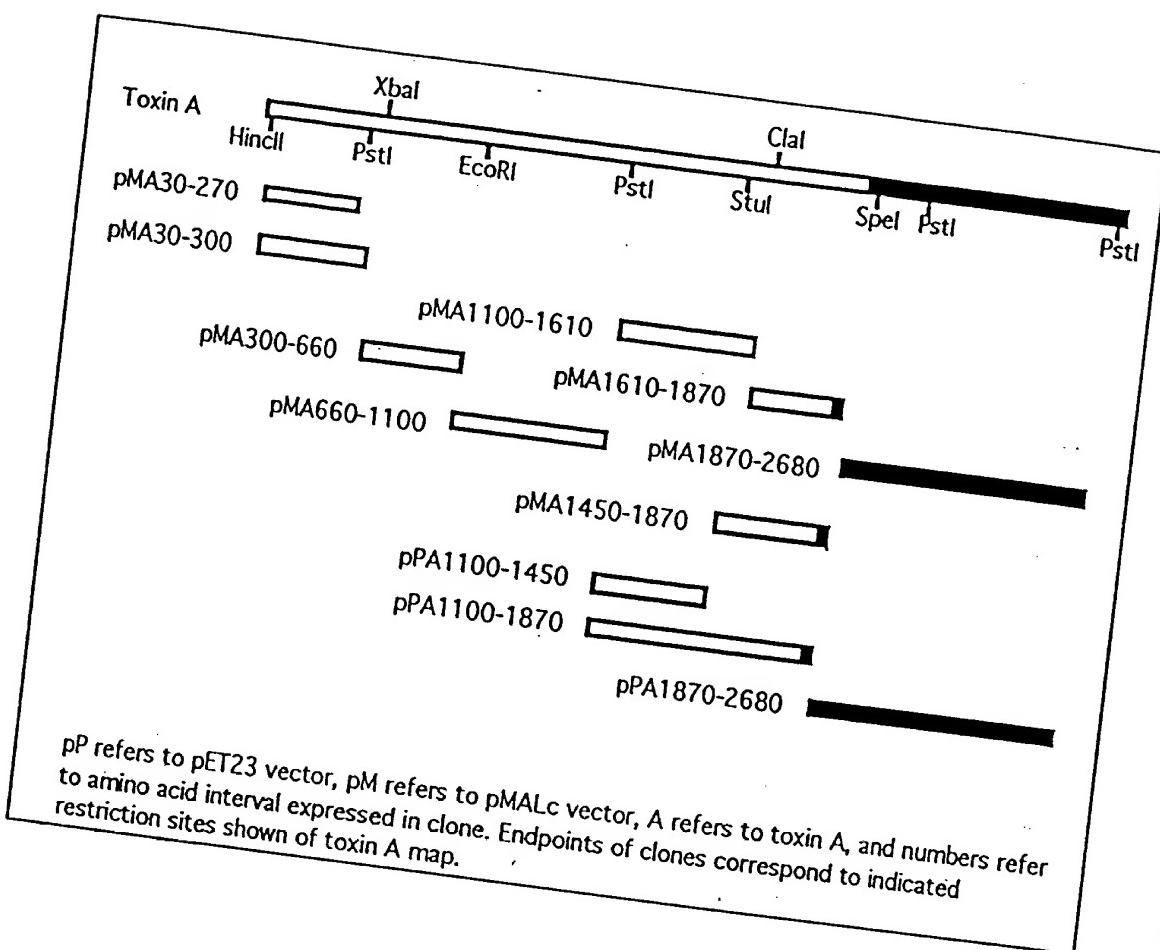


FIGURE 8



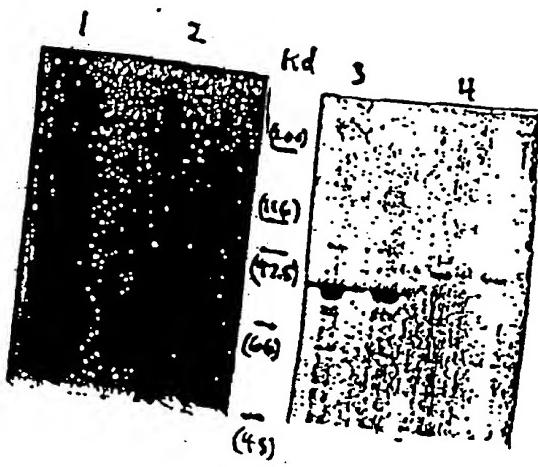
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FIGURE 9



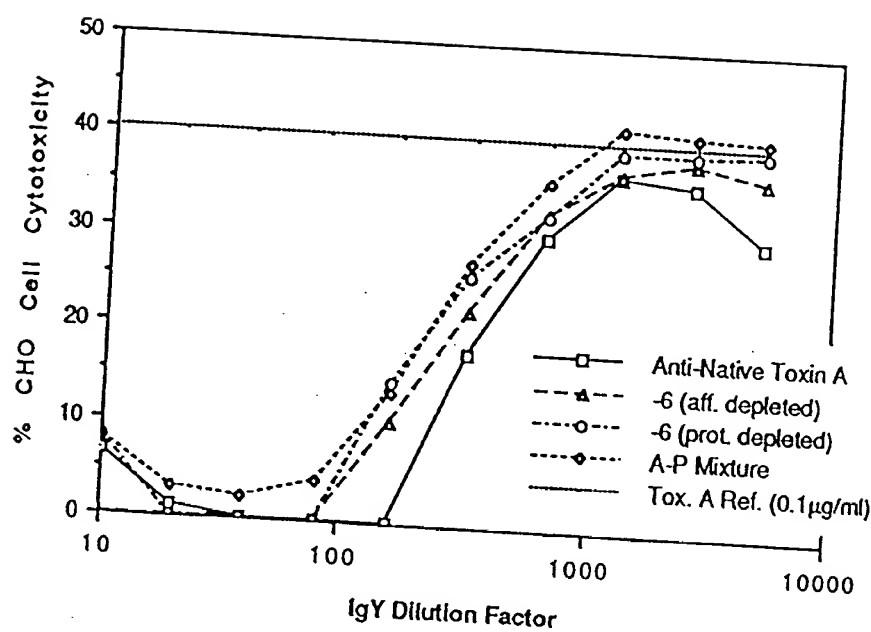
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FIGURE 10



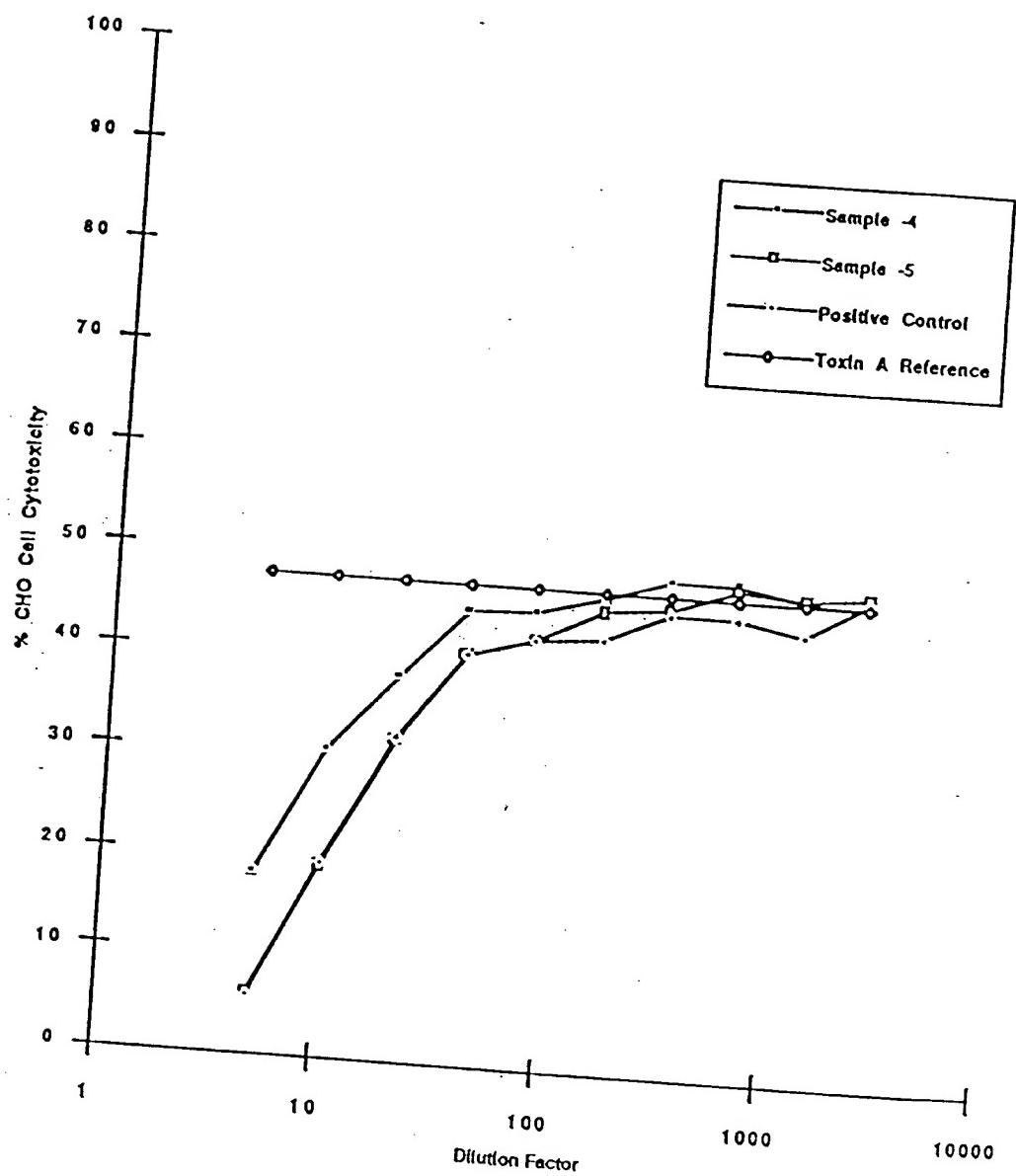
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FIGURE 11



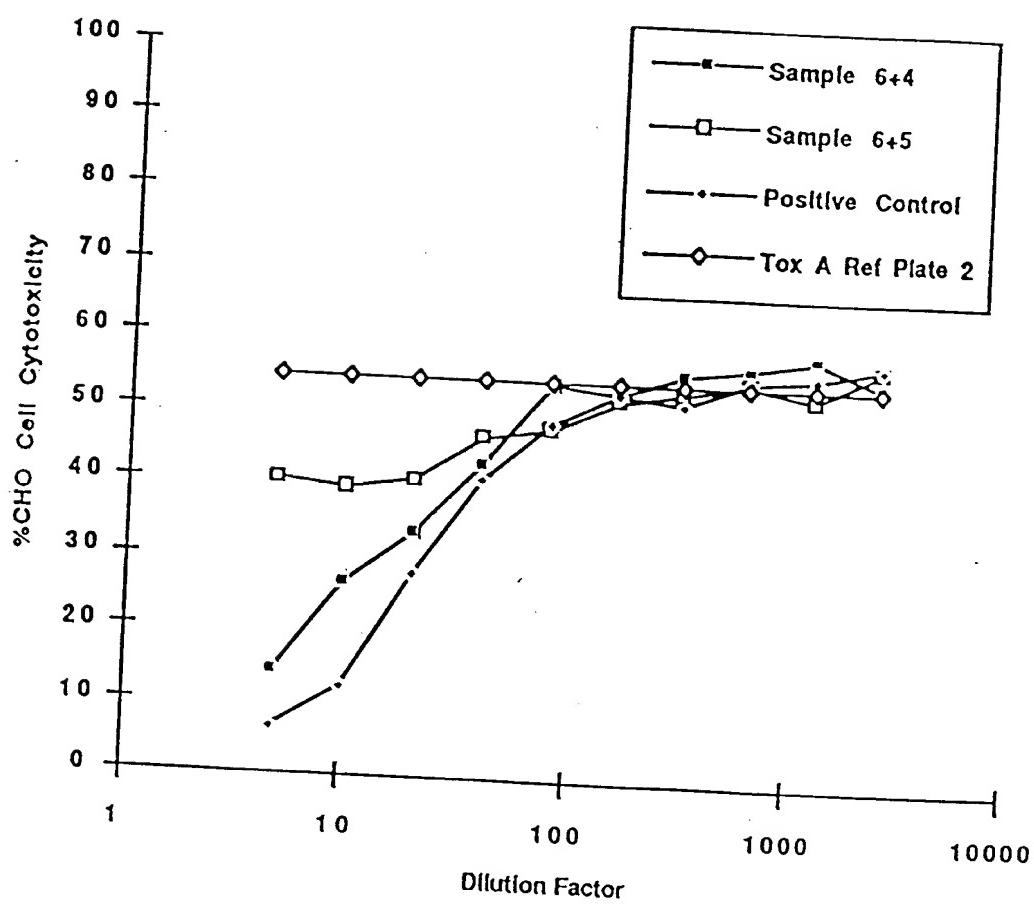
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FIGURE 12



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FIGURE 13



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FIGURE 14

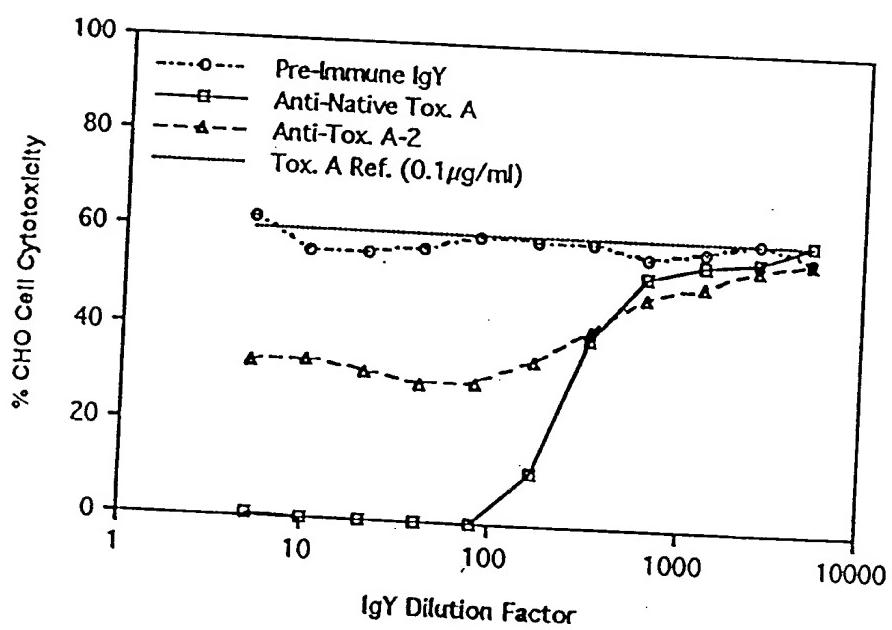
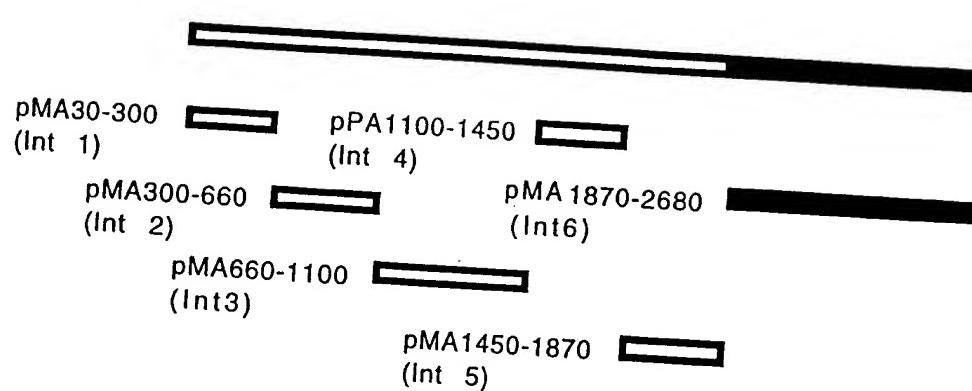
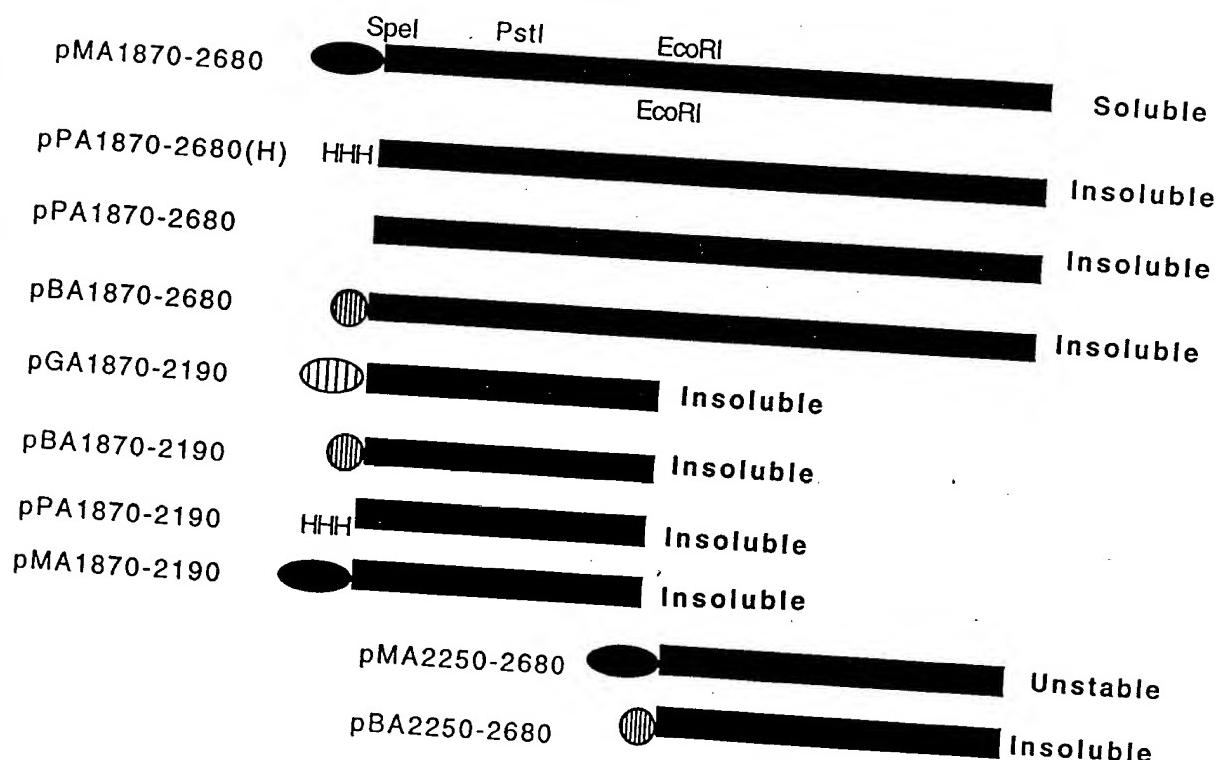


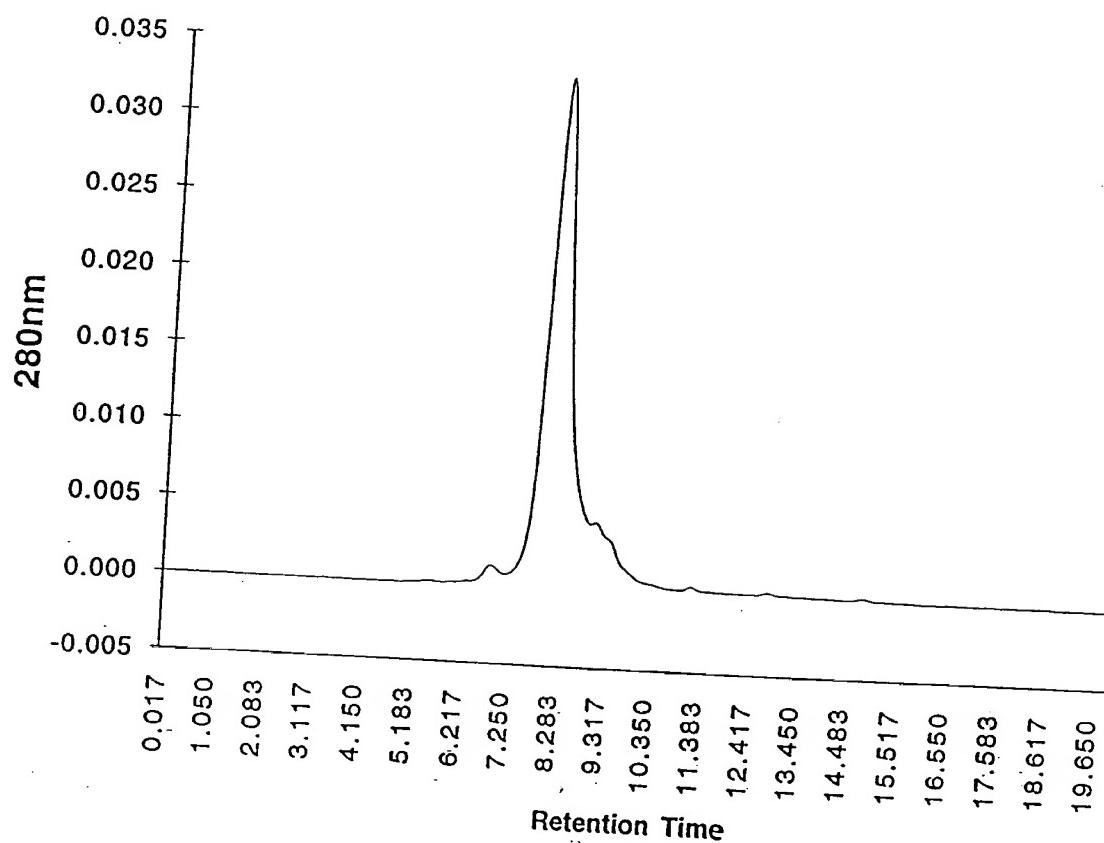
FIGURE 15

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A**B**

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FIGURE 16



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FIGURE 17

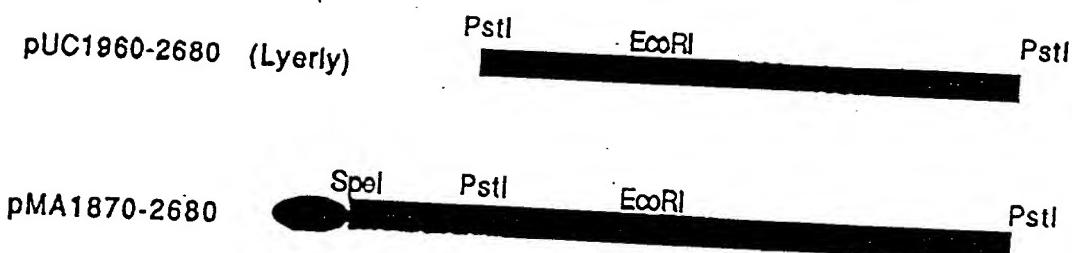
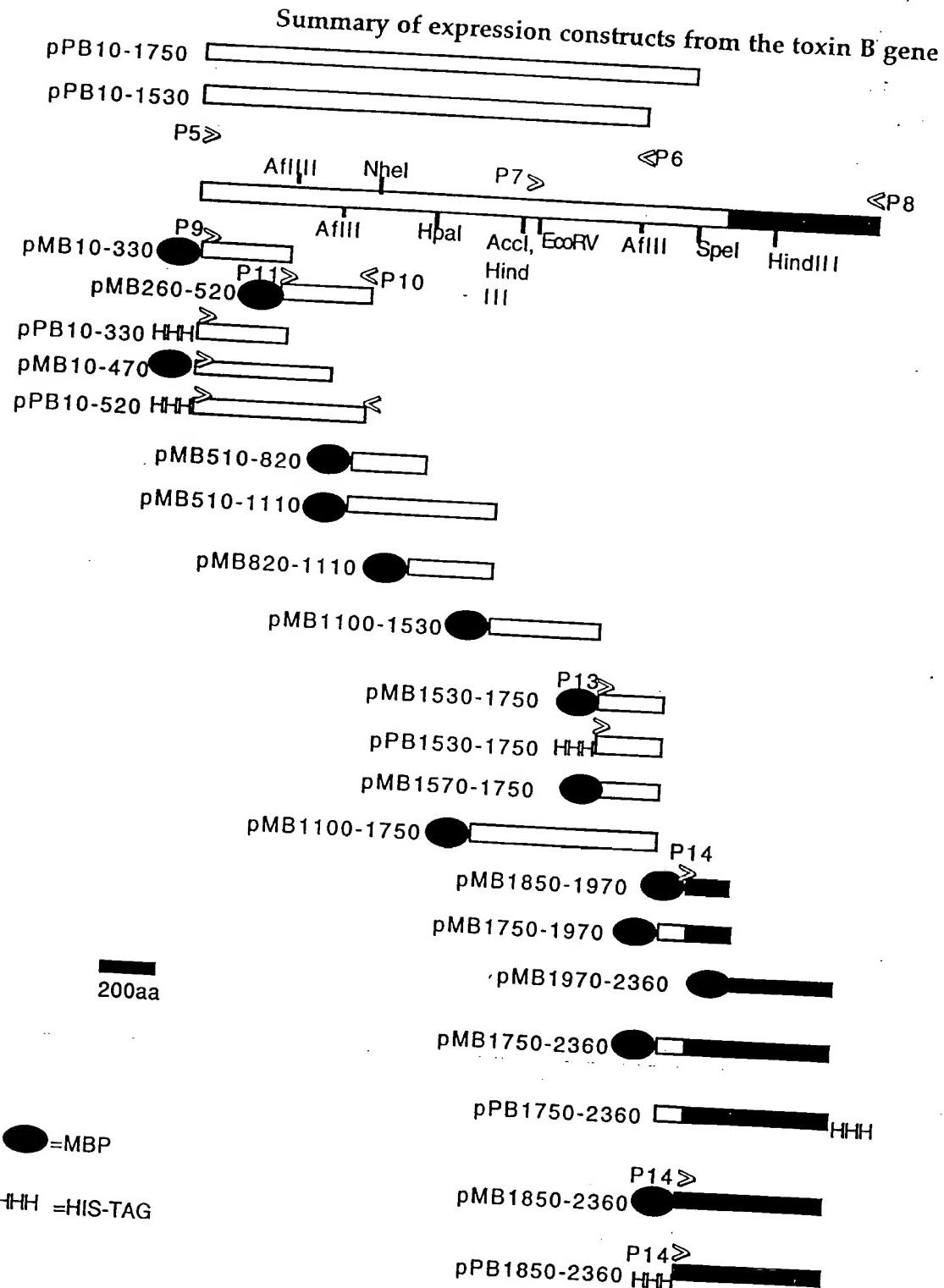


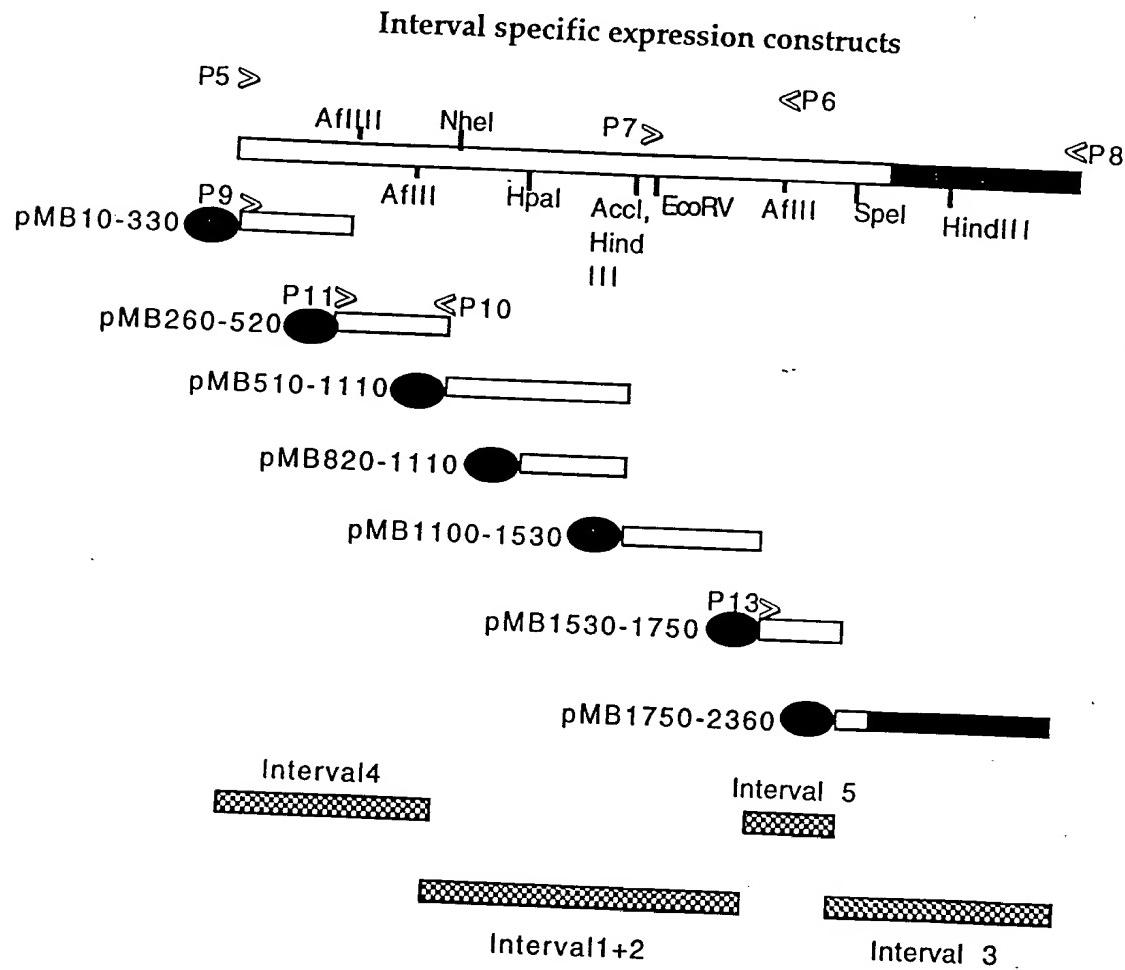
FIGURE 18

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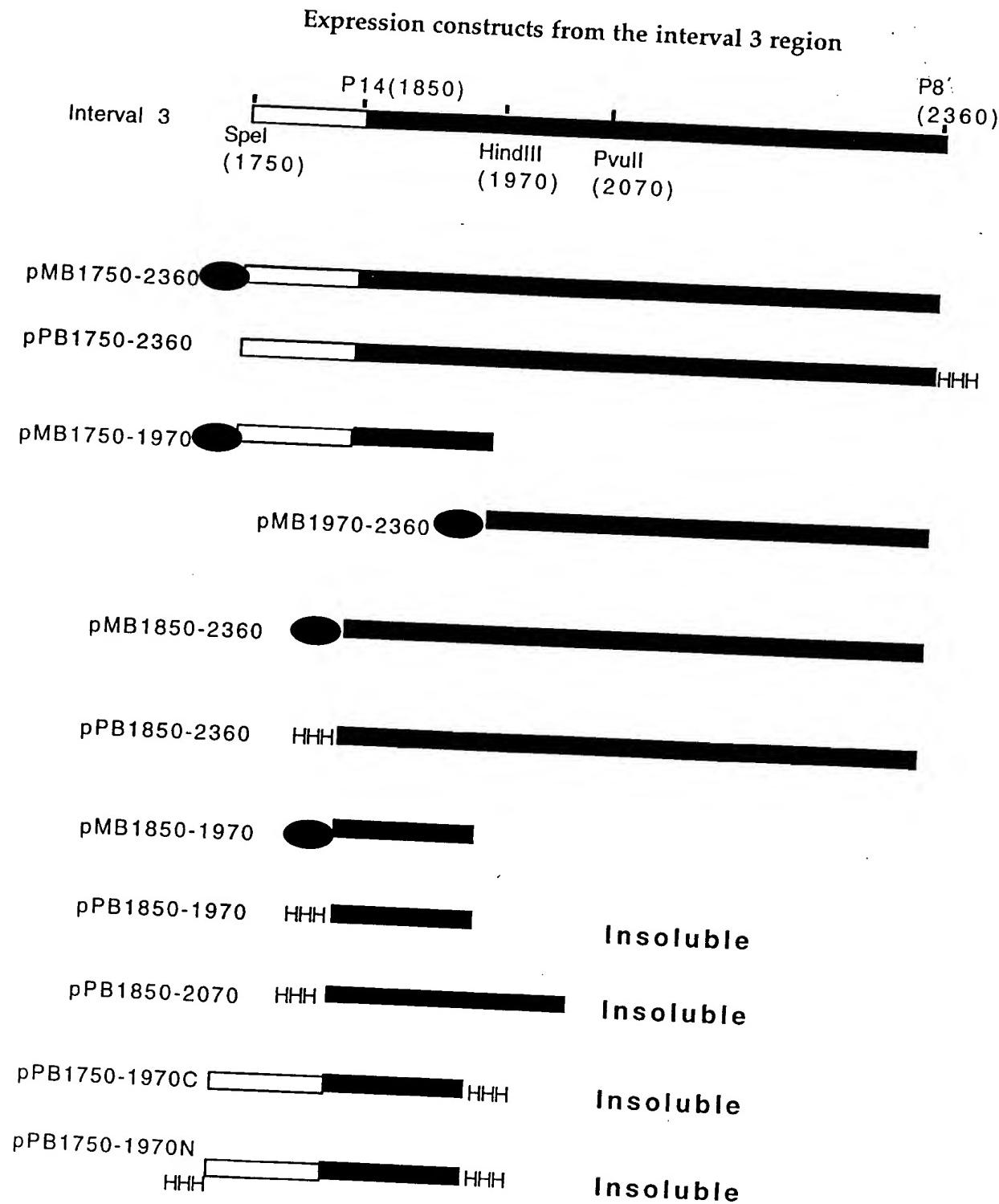
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FIGURE 19



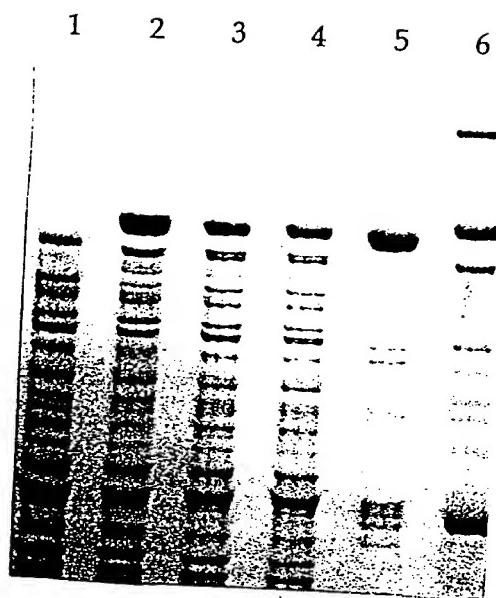
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FIGURE 20



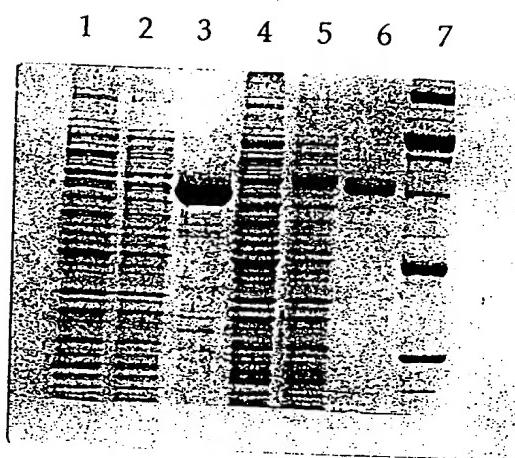
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FIGURE 21



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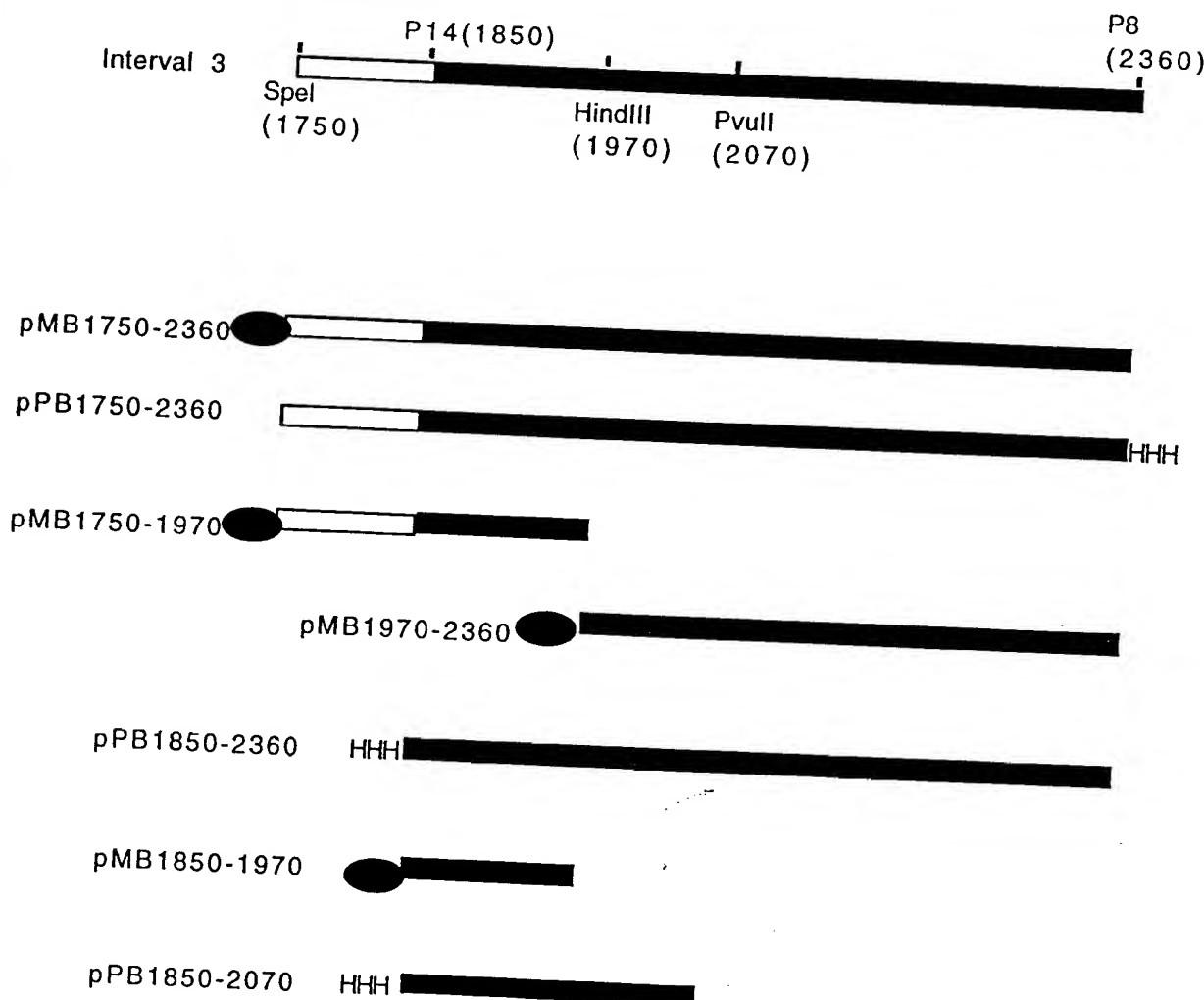
FIGURE 22



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FIGURE 23

Binding of neutralizing CTB antibodies by recombinant toxin B protein



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FIGURE 24

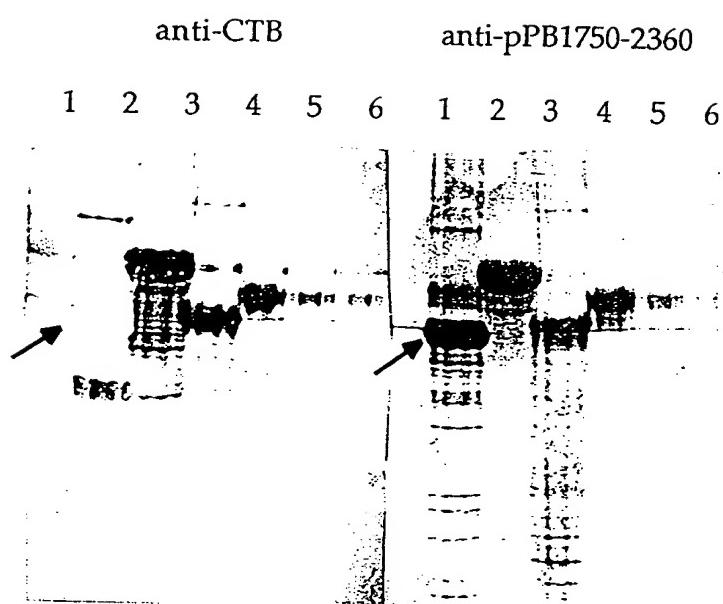
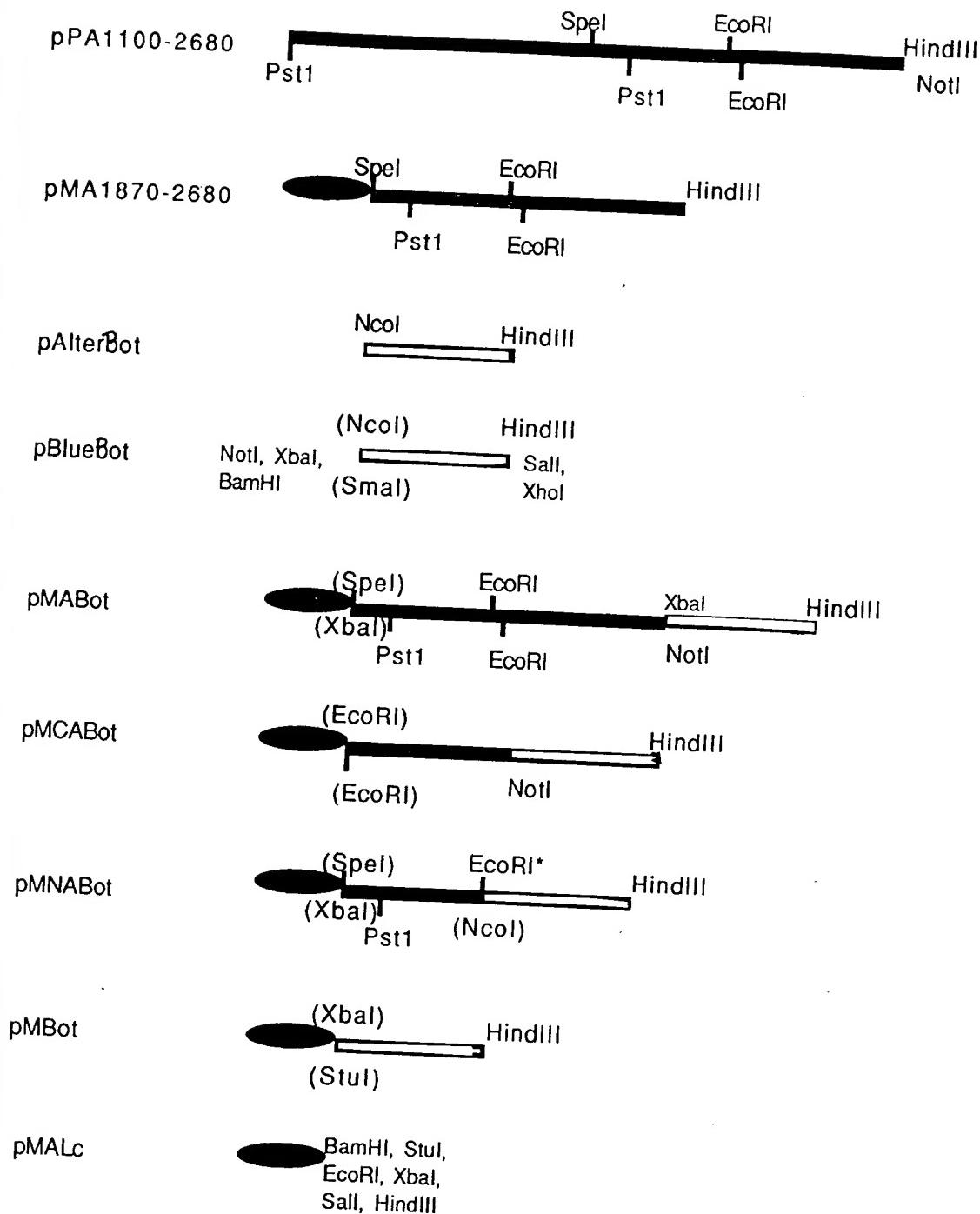


FIGURE 25



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FIGURE 26

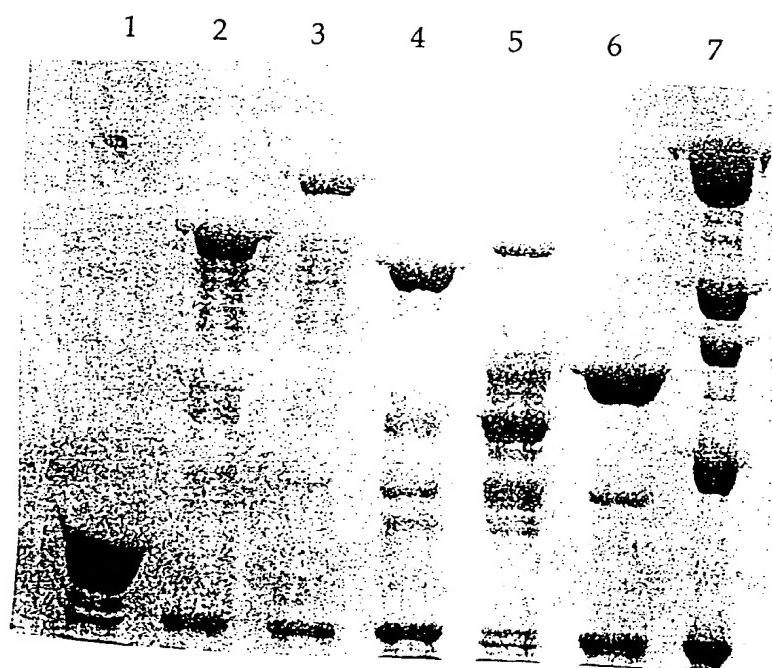
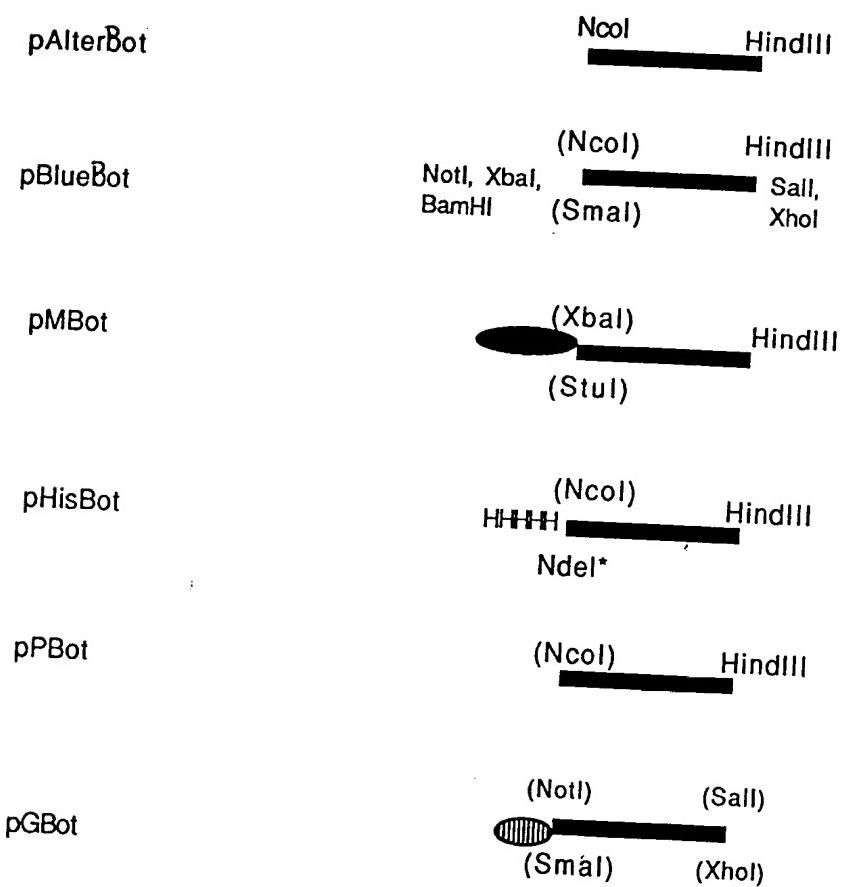


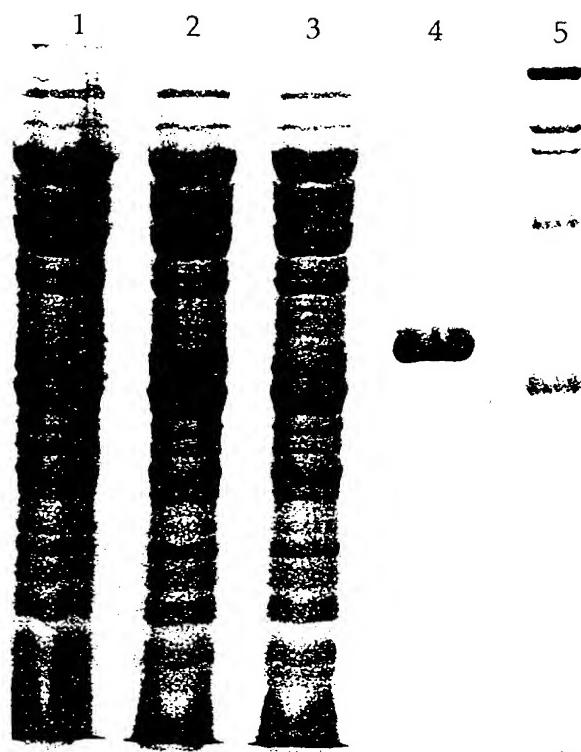
FIGURE 27

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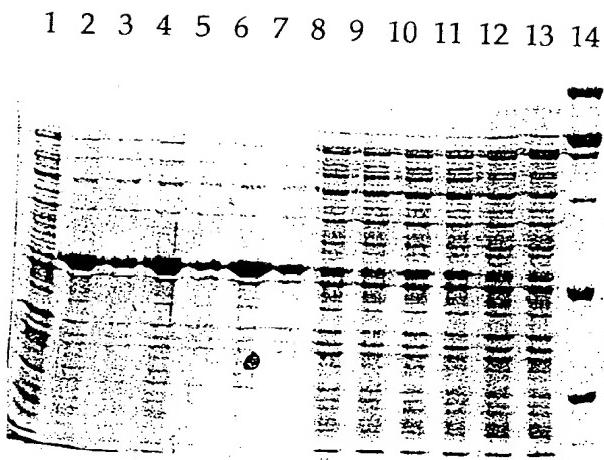
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FIGURE 28



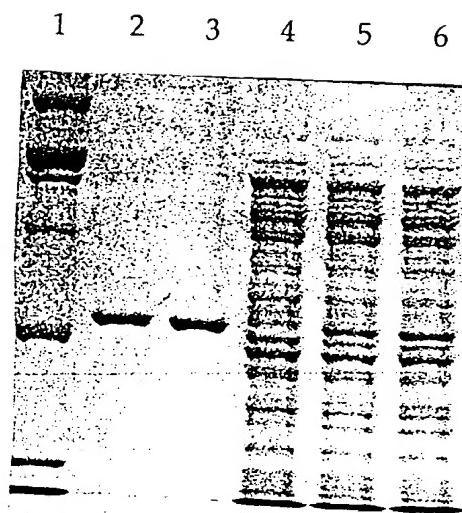
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FIGURE 29



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FIGURE 30



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FIGURE 31

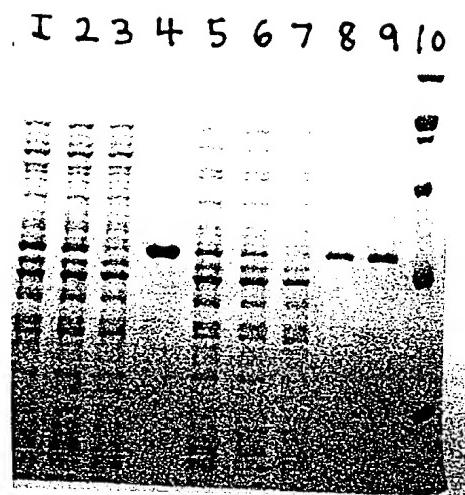


FIGURE 32

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FIGURE 33

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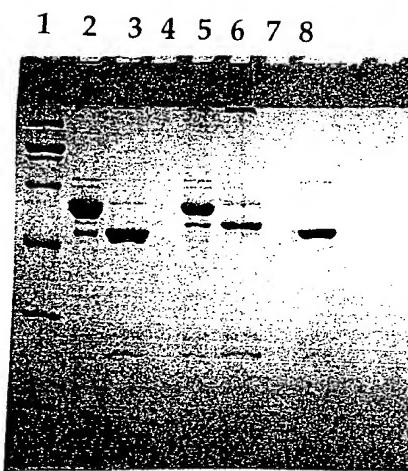


FIGURE 34

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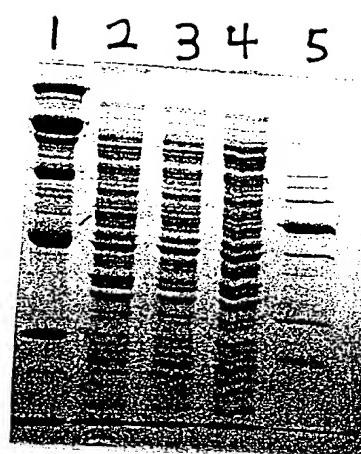
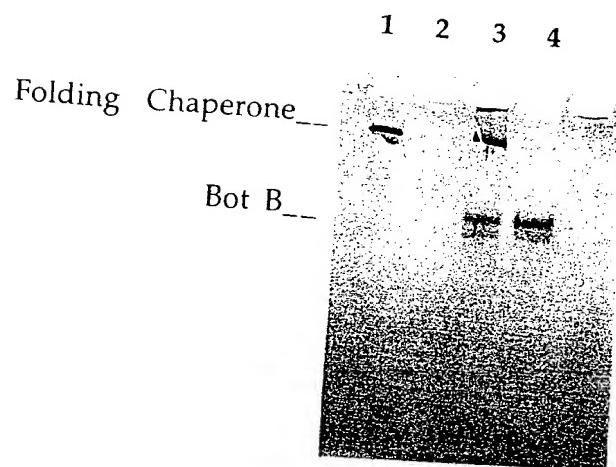


FIGURE 35

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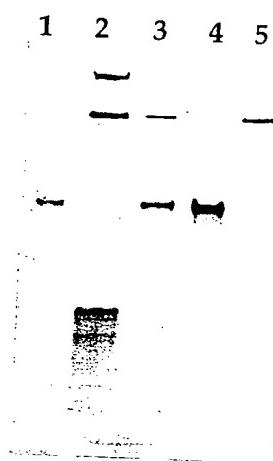
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FIGURE 36



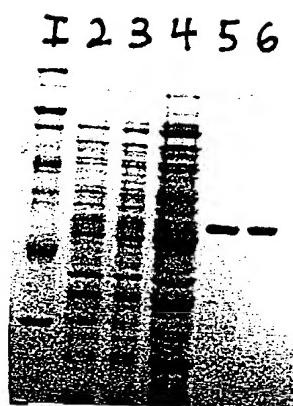
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FIGURE 37



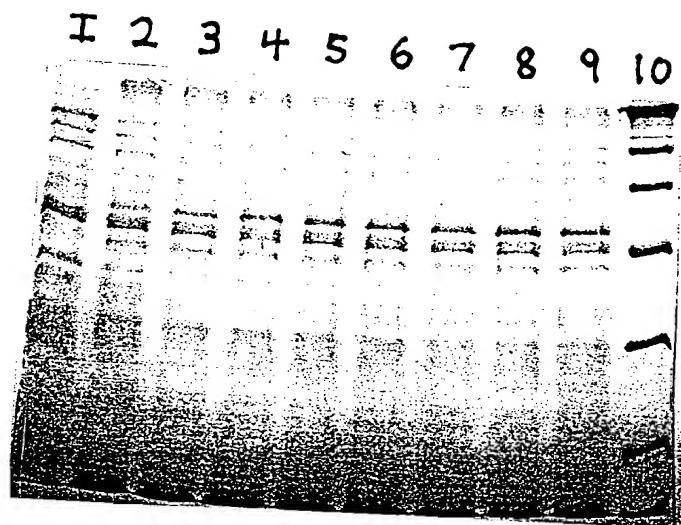
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FIGURE 38



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FIGURE 39



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FIGURE 40

